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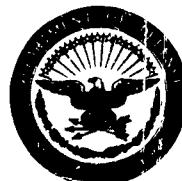
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# TECHNICAL MEMORANDUM

(TM Series)

## DDC AVAILABILITY NOTICE

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SAGE Unique-to-Site Environmental Data and Equipment Assignments Sioux City RCC/DC and DDC Kansas City RCC	SYSTEM DEVELOPMENT CORPORATION
by MAY 24 1963	2500 COLORADO AVE.
D. M. McDaniel	SANTA MONICA
22 April 1963	CALIFORNIA

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INTRODUCTION

This volume of the TM(ADC)820 Series contains the official SAGE Unique-to-Site environmental data and equipment assignments which are to be used in adapting the Model 9 computer programs and in Simplex Data Distribution Unit terminal assignments for the Sioux City Air Defense Sector. Certain adaptation data such as facility locations, characteristics, and other related data which apply to all sectors, is presented in volumes 3 through 7 of this TM series. The reader is referred to Volume 0 of this series for a detailed list of contents of all volumes.

SAGE Unique-to-site Equipment Review (USER) Committee signatures appear on page 5 of this document, with initials indicating approval, concurrence or review, as appropriate.

ADCM 55-32 currently defines adaptation data as being of two categories: 1) ADC Controlled Data; and 2) Field Controlled Data. A portion of this document is ADC Controlled Data and therefore constitutes a reason for the ADC Foreword page and NORAD Preface page authorizing the use of this data. However, since this document also contains Field Controlled Data, e.g.: "Times-2" display data; Manual Input data; etc, it is noted here that the aforementioned military preface and foreword page do not in any way usurp the position of the Division and Sector Commanders as delegated in ADCM 55-32, but instead reflect recognition of data forwarded by those Commanders to SDC.

Discrepancies noticed in any part of this document by SDC on-site programming teams should be forwarded to the authors utilizing current established procedures. Revisions to this document will be published as data changes occur or when practical. Changes to previous data will be indicated by use of a "►" next to the data change.

SERIES CONTENTS

VOLUME	0	Series Description
VOLUME	1	Adaptation I/O Limits and Drum Channel Requirements
VOLUME	2	Sector Environment Summaries
VOLUME	3	Sector and Region Positional Data
VOLUME	4	Radar Adaptation Data
VOLUME	5	Voice and Data-Link Communications Adaptation Data
VOLUME	6	Airbase and BOMARC Squadron Adaptation Data
VOLUME	7	ADA Site Adaptation Data
VOLUME	10	Unified Adaptation Guide for Region and Sector Data
VOLUME	250 through 351	SAGE Unique-to-Site Environmental Data and Equipment Assignments

LIST OF EFFECTIVE PAGES

This page is a reference of changes to this volume and contains a complete index of all effective pages.

Page No.	Change Letter	Publication Date	Page No.	Change Letter	Publication Date
1-2	A	9 April 63			
3-5	Basic	7 Nov 62			
6-6A	A	9 April 63			
7-10	Basic	7 Nov 62			
11-13	A	9 April 63			
14-15	Basic	7 Nov 62			
16-17	A	9 April 63			
18-24	Basic	7 Nov 62			

7 November 1962

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USER COMMITTEE SIGNATURES

	APPROVAL	CONCURRENCE	REVIEW
APASTO <i>Wm H. Cederholm</i> AT&T, N.Y.S.A.F.	<i>Wda</i>		
SDC (DAS) <i>F. L. Marshall</i>		<i>Rm</i>	
WE/ADES <i>C. L. Lynn, Jr.</i>			<i>CLD</i>
IBM <i>D. A. Reh</i>			<i>DAR</i>

The SAGE Unique-to-Site Equipment Review (USER) Committee signatures appearing on this page only apply to the following sections:

Section 2.4	IRI drum channel assignments
Section 6.2	Lateral-Tell input channel assignments
Section 6.3	Ground-to-ground data link output assignments
Section 6.4	Ground-to-air data link output assignments
Section 6.5	Teletype output assisgments

All other sections of this document need not be reviewed by the USER Committee. This page will only be reissued when changes to the above mentioned sections are made.

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## 1.2 MAJOR WORLD GEOREFS SURROUNDING X1 AREA

SWITCH CODE	GEOREF	SWITCH CODE	GEOREF	SWITCH CODE	GEOREF
1	EJ	4	FJ	7	GJ
2	EK	5	FK	8	GK
3	EL	6	FL	9	GL

## 1.3.0 ADJACENT AUTOMATIC AND MANUAL SECTORS AT DC LEVEL

AUTOMATIC SECTOR NAME	AUTO LTR. DSG.	SECTOR REF.NO. (EQ.ID.)	D/L TIED	AMP NO.	SWITCH CODE	MAN LTR. DSG.	MANUAL SECTOR NAME **
CHICAGO DC	K	10	YES	007	0		
DULUTH	U	5		010	1		
CHICAGO CC	*** 2	2	YES		2		
SEATTLE CC	*** 3	3	YES		3 ****		
DETROIT	G	3		006	3 ****		
S.S. MARIE	V	6	YES	014	4		
RENO RCC/DC	*** 5	5	YES		5	LV	LONGMONT, COLO
MINOT	P	6	YES	019	6	PE	AMARILLO, TEXAS
GREAT FALLS	*** A	7	YES	020	7		
GRAND FORKS	T	8	YES	011	8		
MONTGOMERY	E	9		009	9		

\*SWITCH NO. 0 ON 10PB MODULES AND SWITCH NO. 10 ON 15PB MODULES

\*\*ONLY MDC'S WITH DC TTY OUTPUT ARE INDICATED

\*\*\*NOT AN ADJACENT SECTOR BUT IS DATA LINK TIED

\*\*\*\*DETROIT AND SEATTLE CC SHARE ONE PUSHBUTTON ON THE SECTOR MODULE OF THE FTT CONSOLE

## 1.3.1 ADJACENT SECTORS AND REGIONS AT CC LEVEL

REF.	NAME	REGION NO.	REF. DSG.	SECTOR NO.	SWITCH LTR. CODE	DSG. NO.	EQUIP. ID.	TO THE RCC/DC	ADJACENT
RGN	29TH NORAD	29	4			5		4	
RCC/DC	SIOUX CITY			4	L	1	22	4	
DCB	MINOT			6	P	2	19	6	
DCC	GREAT FALLS			7	A	3	20	7	
DCD	GRAND FORKS			8	T	4	11	8	YES
CCB	30TH NORAD	30	2			6		2	
DC1	DULUTH			5	U		10	5	
DC2	CHICAGO			10	K		7	10	YES
CCC	25TH NORAD	25	3			7		3	
DC3	SPOKANE			9	Y		15	9	
RCC	28TH NORAD	28	5			8		5	
RCC/DC	RENO			5	X		16	5	

1.4 LAND SEA LINES- NONE

1.5 AIR DEFENSE IDENTIFICATION ZONE - NONE

1.6 SECTOR MINIMUM ENROUTE ALTITUDE. 4000 FEET

1.7 TACAN TRANSMITTER NEAREST SECTOR CENTER

	LATITUDE	LONGITUDE
	038 51 00	094 33 00

## ▷ 1.8.0 MAGNETIC VARIATION LINES

LINE NO.	VARIATION	NORTHERN POINTS		SOUTHERN POINTS	
		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
1	12 DEG E	044 00 00	100 40 00	038 00 00	101 45 00
2	10 DEG E	044 00 00	097 15 00	036 00 00	098 20 00
3	8 DEG E	044 00 00	095 05 00	036 00 00	094 25 00
4	6 DEG E	044 00 00	093 10 00	034 00 00	090 55 00
5	4 DEG E	044 00 00	090 30 00	034 00 00	088 05 00
6	2 DEG E	044 00 00	089 00 00	034 00 00	085 35 00

## ▷ 1.8.1 MAGNETIC VARIATION AT SECTOR CENTER 8 DEGREES EAST

1.9 X2 DISPLAY DATA

X2 DISPLAY CENTER		X2 DISPLAY VERTICES		
LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
039 00 48	093 51 54	1 NE	044 22 24	085 54 37
		2 SE	033 06 19	087 11 01
		3 SW	033 10 45	100 39 15
		4 NW	044 28 16	101 42 46

## 2.0 RADAR DATA

## 2.1 LONG RANGE RADARS, LRR-HF-ALRR MULTIPLEXED GAP FILLER RADARS

SWCH. CODE*	SITE DESIG.	NC.CF			AMP NO.	SWCH. CODE	SITE DESIG.	SWCH. CODE	SITE DESIG.
		TIEC HF'S	LTR. DSG.	MODE					
0									
1	**P-47	2	B	I	103				
2	P-81	2	C	IIA/OL	135				
3	**SM-134	2	D	I	150				
4									
5	P-64	2	F	IIA/OL	117				
6									
7									
8	**P-72	2	J	I	128				
9	**P-71	2	K	I	127				
10	**P-18	0	L	OL	076				
11	**SM-133	2	M	I	149				
12	SM-143	2	N	IIA/OL	152				
13									

\*SAME AS REFERENCE NO. MINUS 1, ID CODE, AND WARNING LIGHT NUMBER. TO OBTAIN LRR PROGRAM CHANNEL NUMBER ADD 35, TO OBTAIN MKX PROGRAM CHANNEL NUMBER ADD 49  
\*\* 6 LRR'S WITH THE MOST MODE I COVERAGE

## 2.2 GAP FILLER RADARS - NONE

2.3 LOCATION OF POINT NOT WITHIN ANY HF SHADOW AREA  
LATITUDE      LONGITUDE

▼

039 22 36    097 07 30

## 2.4 LRR DRUM CHANNEL ASSIGNMENTS

## SDDU CONNECTIONS

SITE LOCATION	TELCO TERMINAL	I.B.M. TERMINAL	CHANNEL NUMBER	SITE IDENT
DRUM FIELD 1 (35)				
P-64	3F- 1	3F- 1	1	0101
	3F- 2	3F- 2	2	0101
P-71	3F- 3	3F- 3	3	1001
	3F- 4	3F- 4	4	1001
P-18	3F- 5	3F- 5	5	1010
	3E- 6	3E- 6	6	1010
P-81	3E- 7	3E- 7	7	0010
	3E- 8	3E- 8	8	0010
SM-143	3E- 9	3E-11	11	1100
	3E-10	3E-12	12	1100
	3D-11	3D-13	13	
	3D-12	3D-14	14	
	3D-13	3D-15	15	
	3D-14	3D-16	16	
	3D-15	3D-17	17	
	3C-16	3C-18	18	
DRUM FIELD 2 (37)				
SM-133	3C-17	3C-19	19	1011
	3C-18	3C-20	20	1011
SM-134	3C-19	3C-21	21	0011
	3C-20	3C-22	22	0011
P-72	3B-21	3B-23	23	1000
	3B-22	3B-24	24	1000
P-47	3B-23	3B-25	25	0001
	3B-24	3B-26	26	0001
	3B-25	3B-29	29	
	3A-26	3A-30	30	
	3A-27	3A-31	31	
	3A-28	3A-32	32	
	3A-29	3A-33	33	
	3A-30	3A-34	34	
	4F-31	4F-35	35	
	4F-32	4F-36	36	

## 3.0 AIRBASE DATA

## 3.1 MANNED INTERCEPTOR AIR BASES AND SQUADRONS

REF#	NAME	CSG	MODE-TYPE			SWCH	SQUADRONS	AMP		
			I	IIA	IIB				MODE	CODE
01	RICHARDS-GEBAUR MO	GVW	S	S		I	14	326 FIS	LH	133
02	TRUAX AFB WISC	MSN	R	S		IIA	13	176 ANG	HK	155
								325 FIS	PG	155
03	LINCOLN AFB NEB	LNK	A	A		I	12	173 ANG	XG	074
04	DES MOINES IOWA	DSM	R	A		IIA	11	124 ANG	GH	028
05	MCCONNELL AFB KAN	IAB	A	A		I	10	127 ANG	NL	085
06	OLATHE NAS KAN	NUU	A	A		I	9	NVY AUG	MG	114
07	MEMPHIS NAS KAN	NQA	R	A		IIA	8	NVY AUG	JN	098
08	GRAND ISLAND NEB	GRI	R	R		I	7			049
09	WHITEMAN AFB MO	SZL	R	R		IIA	6			168
10	FORBES AFB KAN	TOE	R	R		I	5			038
11	SCHILLING AFB KAN	SSH	R	R		I	4			136
12	SIOUX CITY IOWA	SUX	R	R		I	3			142
13	SIOUX FALLS SD	FSD	R	R		OL	2			143
14	OFFUTT AFB NEB	OFF	R	R		I	1			112
15	LITTLE ROCK ARK	LRF	R	A		IIA	0	3555 CCTW	TN	075

\*SAME AS A/B CHANNEL NUMBER PLUS ONE

## 3.2 SAC/MATS BASES

	NAME	DESIG	3 LTR	AMP
			MODE*	NO.
1	FORBES AFB, KANS	TOE	I	034
2	LINCOLN AFB, NEBR	LNK	I	051
3	OFFUTT AFB, NEBR	OFF	I	070
4	SCHILLING AFB, KAN	SSH	I	087
5	WHITEMAN AFB, MO	SZL	I/OL	099
6	BLYTHEVILLE AFB	BYH	II	011
7	LITTLE ROCK AFB	LRF	II	050
8	MEMPHIS, TENN	MEM	II	064
9	ST LOUIS, MO	STL	II	090
▷ 10	GEN. MITCHELL, WIS	MKE	II/OL	108

\*MODE IS DEFINED HERE AS INCLUDING A 50 MILE OVERLAP ZONE

## 3.3 REGIONAL MANNED INTERCEPTOR AIR BASES

DSG	AMP	RCC/DC	DCB	DCC	DCD	SECTOR ORIENTED DATA			RCC/DC	DCB	DCC	DCD			
						NO. BY SECTOR							AIRBASE MODE/TYPE		
						SC	MI	GR					SC	MI	GR
01	GVW	133	01						I/SCR						
02	MSN	155	02						IIA/SCR						
03	LNK	074	03						I/AUG						
04	DSM	028	04						IIA/AUG						
05	IAB	085	05						I/AUG						
06	NUU	114	06						I/AUG						
07	NQA	098	07						IIA/AUG						
08	GRI	049	08						I/REC						
09	SZL	168	09						IIA/REC						
10	TOE	038	10						I/REC						
11	SSH	136	11						I/REC						
12	SUX	142	12			07			I/REC						
13	FSD	143	13			05			OL/REC						
14	OFF	112	14						I/REC						
15	LRF	075	15						IIA/AUG						
16	MIB	100		01	07	02			I/SCR	OL/REC	IIB/SCR				
17	DLH	032				03					IIA/SCR				
18	GSG	044		04	02	06			I/SCR	IIA/SCR	OL/REC				
19	WG	169				09					I/REC				
20	GM	043				10					I/REC				
21	PG	130		15		11			IIA/REC						
22	GFA	091		08	01				IIB/SCR	I/SCR					
23	GTF	051		09	04				IIB/AUG	I/AUG					
▷															
24															
25	RDR	048		11	—	01			OL/REC						
26	BIL	009		14	10				IIB/REC	I/REC					
27	GEG	144				03					OL/REC				
28	CD	024		10	05				IIB/REC	I/AUG					
29	CTB	026				08					I/REC				
30	LWT	073				09					I/REC				
31	ED	106				11					I/REC				
32	YC	016				13					I/REC				
▷	33	EDI	188			14					<u>I/REC</u>				
34	FAR	037		13		04			OL/REC						
35	RCA	035		07		08			I/REC						
▷	36	XE	135		12	12			I/REC	IIA/REC					
37	GF1	172				15					<u>I/REC</u>				
38	MIW	175			02				I/REC						
39	MIE	174			03				I/REC						
40	GSW	046			05				I/REC						
41	GSE	045			06				I/REC						
▷	42	GT1	173			06					<u>I/SCR</u>				

## 3.4 REGIONAL SQUADRON DATA

	NAME OF AIRBASE	SQUAD UNIT	DSG	INT. TYPE	AMP NO.
01	RICHARDS-GEBAUR	326 FIS	LH	F-102A	133
02	TRUAX	325 FIS	PG	F-102A	155
03	TRUAX	176 ANG	HK	F-89J	155
04	MCCONNELL	127 ANG	NL	F-100C	085
▷ 05	MEMPHIS	NVY AUG	JN	* F-1E	098
06	LINCOLN	173 ANG	XG	F-86L	074
07	LITTLE ROCK	3555 CCTW	TN	F-102A	075
08	DFS MCINES	124 ANG	GH	F-89J	028
▷ 09	—	—	—	—	—
10	—	—	—	—	—
11	OLATHE	NVY AUG	MG	**F-9F	114
12	GRAND FORKS	18 FIS	LL	F-101B	048
13	MINOT	5 FIS	JN	F-106A/B	100
14	FARGO	178 ANG	MP	F-89J	037
15	SDIoux FALLS	175 ANG	PP	F-102	143
16	DULUTH	11 FIS	VN	F-106A	032
17	DULUTH	179 ANG	ML	F-89J	032
18	GLASGOW	13 FIS	PH	F-101B	044
19	COLD LAKE	3RD AWF	EL	CF-100	024
20	MALMSTROM	29 FIS	UG	F-101B	091
21	GREAT FALLS	186 ANG	XH	F-89J	051

\*NAVY VERSION OF USAF F-86F

\*\*PROGRAM AS F-86L

## 4.0 BOMARC DATA

4.1 BOMARC A BASES - NONE

4.2 BOMARC B BASES - NONE

## 5.0 ARMY AIR DEFENSE COMMAND POST(AADCP) DATA

SWCH CODE*	NAME	OPTION	MODE	EQ.ID.	AMP NO.	PARENT SECTOR	MODE II CONTROL	OVERLAP COVERAGE
1	KANSAS CITY	AUTO	I	12	009	SC	CH	
2	LINCOLN-OFFUTT	AUTO	I	13	010	SC	CH	GF,DU
3	ST LOUIS	AUTO	IIA	14	022	CH	SC	
4								
5								
6								
7								
8								
9	MINN-ST PAUL	LTL	OL		014	DU	GF	CH,SM,SC
10	**FAIRCHILD	LTL	OL		007	SP	SE	GR,RE,PO

\*SAME AS AADCP NUMBER

\*\*LISTED FOR REGION INFORMATION ONLY

## 5.1 REGIONAL AADCP DATA

REF	DSG	SWITCH NO/OPTION/EIDN	GR	GF
		SC	MI	
1	KANSAS	01/AUTO/12		
2	LINCOLN-OFF.	02/AUTO/13		09/LTL
3	ST LOUIS	03/AUTO/14		
4	MINN-ST PAUL	09/LTL		01/AUTO/12
5	FAIRCHILD		10/LTL	

9 April 1963

TM(ADC)820/290/00A

**DISTRIBUTION LIST**

PIR-A #4	WECO Group A - New York (5 and 1 vellum) WECO - Santa Monica (room 3311B)
PIR-A #5	IBM - Kingston (6 and 1 vellum) IBM - Santa Monica (room 3311A)
PIR-A #31	ADC - CCDSO (3) AD4SY
PIR-A #36	ADC DIV SEC HQ 29th Division HQ SCADS GRADS MIADS GFADS CHADS DUADS
PIR-A #41	ADC HQ and NORAD ADOOP-E ADOAC-EE (Mr. R. W. Carvill)
PIR-A #48	HQ ESD ESSGL 416L SPO

APASTO

AD8CP-E  
AD8CP-T

RCAF

F/Lt. G. R. Todd, RCAF  
Santa Monica, California

## SYSTEM DEVELOPMENT CORPORATION

USG Sec 2 (3)	4345
USG DAS (6)	4365
PPB SSG System Data (2)	20157
STB Run Designer	4770
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FIB Team Heads - Sioux City	FIB Team Heads - Chicago
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System Development Corporation,  
Santa Monica, California  
SAGE UNIQUE-TO-SITE ENVIRONMENTAL  
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SIOUX CITY RCC/DC AND KANSAS CITY RCC.  
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